

## DECLARATION FOR PATENT APPLICATION SOLE OR JOINT

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention titled:

### **Methods of Forming Titanium-Based and Zirconium-Based Mixed-Metal Materials; and Sputtering Targets**

the specification of which is attached hereto unless the following box is checked.

was filed on \_\_\_\_\_ as United States Application Number or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (If Applicable).

I HEREBY STATE THAT I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS.

I ACKNOWLEDGE THE DUTY TO DISCLOSE INFORMATION THAT IS MATERIAL TO THE PATENTABILITY OF THIS APPLICATION IN ACCORDANCE WITH TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

#### **Prior Foreign Application(s)**

(Number)	(Country)	(Day/Month/Year Filed)	Priority Claimed
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States applications listed below and, INSOFAR AS THE SUBJECT MATTER OF EACH OF THE CLAIMS OF THIS APPLICATION IS NOT DISCLOSED IN THE PRIOR UNITED STATES APPLICATION IN THE MANNER PROVIDED BY THE FIRST PARAGRAPH OF TITLE 35, UNITED STATES CODE, §112, I ACKNOWLEDGE THE DUTY TO DISCLOSE MATERIAL INFORMATION AS DEFINED IN TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a) WHICH OCCURRED BETWEEN THE FILING DATE OF THE PRIOR APPLICATION AND THE NATIONAL OR PCT INTERNATIONAL FILING DATE OF THIS APPLICATION:

(Application Serial Number)	(Filing Date)	(STATUS: Patented, Pending, Abandoned)
_____	_____	(STATUS: Patented, Pending, Abandoned)

SEND CORRESPONDENCE TO:

Shannon Morris

Honeywell International Inc.

P.O. Box 2245

101 Columbia Road, Morristown, New Jersey 07962

DIRECT TELEPHONE CALLS TO:

(724) 452-1523

**EL 465852167**

## DECLARATION FOR PATENT APPLICATION—SOLE OR JOINT (Continued)

Attorney's Docket No.: H0001468 – Page 2

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF SOLE OR FIRST INVENTOR Stephen P. Turner  
INVENTOR'S SIGNATURE *Stephen P. Turner* Date 10/23/00  
RESIDENCE Moon, PA  
CITIZENSHIP UK  
POST OFFICE ADDRESS 4026 Turnwood Lane  
Moon, PA 15108

FULL NAME OF SECOND JOINT INVENTOR Joseph E. Green  
INVENTOR'S SIGNATURE *Joseph E. Green* Date 10/23/00  
RESIDENCE Cranberry Township, PA  
CITIZENSHIP U.S.  
POST OFFICE ADDRESS 200 Whispering Oaks Drive  
Cranberry Township, PA 16066

FULL NAME OF THIRD JOINT INVENTOR Rodney L. Scagline  
INVENTOR'S SIGNATURE *Rodney L. Scagline* Date 10/23/00  
RESIDENCE Evans City, PA  
CITIZENSHIP U.S.  
POST OFFICE ADDRESS 582 Prospect Road  
Evans City, PA 16033

FULL NAME OF FOURTH JOINT INVENTOR Yun Xu  
INVENTOR'S SIGNATURE *Yun Xu* Date 10/23/00  
RESIDENCE Pittsburgh, PA  
CITIZENSHIP U.S.  
POST OFFICE ADDRESS 3679 Allendale Circle  
Pittsburgh, PA 15204      443 Tyburn Dr  
    Wexford, PA 15090

FULL NAME OF FIFTH JOINT INVENTOR  
INVENTOR'S SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
RESIDENCE \_\_\_\_\_  
CITIZENSHIP \_\_\_\_\_  
POST OFFICE ADDRESS \_\_\_\_\_

FULL NAME OF SIXTH JOINT INVENTOR  
INVENTOR'S SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
RESIDENCE \_\_\_\_\_  
CITIZENSHIP \_\_\_\_\_  
POST OFFICE ADDRESS \_\_\_\_\_

FULL NAME OF SEVENTH JOINT INVENTOR  
INVENTOR'S SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
RESIDENCE \_\_\_\_\_  
CITIZENSHIP \_\_\_\_\_  
POST OFFICE ADDRESS \_\_\_\_\_

## DECLARATION FOR PATENT APPLICATION—SOLE OR JOINT (Continued)

Attorney's Docket No. H0001468: - Page 3

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected herewith (List name and registration number).

(LIST SENIOR PATENT COUNSEL AND ATTORNEY HANDLING CASE WITH PATENT OFFICE REGISTRATION NUMBERS.)

Mary Ann Lemere Name 32,160 Registration Number	Shannon Morris Name 42,909 Registration Number	Curt Brueske Name 33,839 Registration Number
David P. Roberts Name 23,032 Registration Number	Randy A. Gregory Name 30,386 Registration Number	Deepak Malhotra Name 33,560 Registration Number
Mark S. Matkin Name 32,268 Registration Number	James L. Price Name 27,376 Registration Number	George G. Grigel Name 31,166 Registration Number
Mark Hendricksen Name 32,356 Registration Number	David G. Latwesen, Ph.D. Name 38,533 Registration Number	Frederick M. Fliegel Name 36,138 Registration Number
Keith D. Grzelak Name 37,144 Registration Number	James D. Shaurette Name 39,833 Registration Number	Bernard Berman Name 37,279 Registration Number
D. Brent Kenady Name 40,045 Registration Number	James E. Lake Name 44,854 Registration Number	
Name	Name	Name
Registration Number	Registration Number	Registration Number
Name	Name	Name
Registration Number	Registration Number	Registration Number
Name	Name	Name
Registration Number	Registration Number	Registration Number
Name	Name	Name
Registration Number	Registration Number	Registration Number

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying parties:

Stephen P. Turner; Joseph E. Green

Rodney L. Scagline; Yun Xu

Additional name(s) & party(ies) attached?  Yes  No

3. Nature of conveyance:

Assignment  Merger

Security Agreement  Change of Name

Other \_\_\_\_\_

Execution Date: October 23, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: October 23, 2000

A. Patent Application No.(s)

10/30/2000 DTESEM1 00000050 09695814

04 FC:581 40.00 OP

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Shannon Morris

Internal Address: \_\_\_\_\_

Street Address: Law Dept. AB2

Box 2245, 101 Columbia Road

City: Morristown State: NJ Zip: 07962

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41) .....\$ 40.00

Enclosed

\* Authorized to be charged to deposit account

8. Deposit account number:

23-0925

**DO NOT USE THIS SPACE**

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

David G. Latwesen, Ph.D.

Name of Person Signing



Signature

10/24/00

Date

Total number of pages including cover sheet, attachments, and document:

6

**Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks, Box Assignments  
Washington, D.C. 20231**

**EL465852167**

JCG29 U.S. PRO  
09/695814



# ASSIGNMENT

Assignment before issue of Letters Patent

HW File H0001468

WHEREAS, Stephen P. Turner; Joseph E. Green; Rodney L. Scagline; and Yun Xu

(hereinafter "Assignor") have invented certain new and useful improvements in

## Methods of Forming Titanium-Based and Zirconium-Based Mixed-Metal Materials; and Sputtering Targets

(hereinafter "invention") for which Assignor is making or has made application for LETTERS PATENT OF

THE UNITED STATES, which application has been duly executed by Assignor on

the day(s) and date(s) of these presents.

AND WHEREAS, Honeywell International Inc., a corporation organized and existing under the laws of the State of Delaware, U.S.A., having a place of business at 101 Columbia Road, Morris Township, Morris County, New Jersey, U.S.A., hereinafter called the Assignee, is desirous of acquiring the entire right, title and interest in and to said invention within the United States of America and its territorial possessions and all foreign countries and any United States or foreign LETTERS PATENT that may be granted therefor.

NOW, THIS INDENTURE WITNESSETH, that for good and valuable considerations, the receipt whereof is hereby acknowledged, Assignor has assigned, sold and transferred, and does hereby assign, sell and transfer to the said Assignee the entire right, title and interest in and to the said invention, within the United States of America and its territorial possessions and all foreign countries and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants, and all divisions, reissues, continuations and extensions thereof that may be granted therefor, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of said U.S. LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America, all said rights to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors or assigns, to the full end of the term for which said LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. And Assignor does hereby request and authorize the Commissioner of Patents and Trademarks, U.S.A., to issue said U.S. LETTERS PATENT, when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered title to the invention hereby assigned, which title Assignor warrants unto the Assignee, and Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request but at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign LETTERS PATENT or the like for the said invention, and for maintaining and perfecting the Assignee's right to said invention and LETTERS PATENT particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 23 day of October, 2000

Stephen P. Turner

IN TESTIMONY WHEREOF, I have hereunto set my hand this 23 day of October, 2000

Joseph E. Green

IN TESTIMONY WHEREOF, I have hereunto set my hand this 23 day of October, 2000

Rodney L. Scagline

## ASSIGNMENT

Assignment before issue of Letters Patent

IN TESTIMONY WHEREOF, I have hereunto set my hand this 23 day of Oct., 2000

Yun Xu



IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2000

[inventors name here] \_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2000

[inventors name here] \_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2000

[inventors name here] \_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2000

[inventors name here] \_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2000

[inventors name here] \_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2000

[inventors name here] \_\_\_\_\_

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2000

[inventors name here] \_\_\_\_\_

STATE OF PA )  
COUNTY OF BEAVER ) ss.:  
On this 23rd day of October, 2000  before me personally appeared  
Stephen P. Turner

to me known and known to me to be the individual described in and who executed the foregoing instrument,  
and he / she / they acknowledged to me that he / she/ they executed the same.

Notarial Seal  
Karen Silvester, Notary Public  
Marion Twp., Beaver County  
My Commission Expires Sept. 30, 2002

Member, Pennsylvania Association of Notaries

[SEAL]

Karen Silvester

Notary Public

My commission expires: 9-30-02

STATE OF PA )  
COUNTY OF BEAVER ) ss.:  
On this 23rd day of October, 2000  before me personally appeared  
Joseph E. Green

to me known and known to me to be the individual described in and who executed the foregoing instrument,  
and he / she / they acknowledged to me that he / she/ they executed the same.

Notarial Seal  
Karen Silvester, Notary Public  
Marion Twp., Beaver County  
My Commission Expires Sept. 30, 2002

Member, Pennsylvania Association of Notaries

[SEAL]

Karen Silvester

Notary Public

My commission expires: 9-30-02

STATE OF PA )  
COUNTY OF BEAVER ) ss.:  
On this 23rd day of October, 2000  before me personally appeared  
Rodney L. Scagline

to me known and known to me to be the individual described in and who executed the foregoing instrument,  
and he / she / they acknowledged to me that he / she/ they executed the same.

Notarial Seal  
Karen Silvester, Notary Public  
Marion Twp., Beaver County  
My Commission Expires Sept. 30, 2002

Member, Pennsylvania Association of Notaries

[SEAL]

Karen Silvester

Notary Public

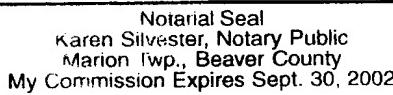
My commission expires: 9-30-02

STATE OF PA )  
COUNTY OF BEAVER ) ss.:  
)

On this 23rd day of October, 2000  before me personally appeared

Yun Xu

to me known and known to me to be the individual described in and who executed the foregoing instrument,  
and he / she / they acknowledged to me that he / she/ they executed the same.



Member, Pennsylvania Association of Notaries

[SEAL]

*Karen Silvester*

Notary Public

My commission expires: 9-30-02

STATE OF \_\_\_\_\_ )  
                    ) ss.:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2000  before me personally appeared

[inventor name here]

to me known and known to me to be the individual described in and who executed the foregoing instrument,  
and he / she / they acknowledged to me that he / she/ they executed the same.

[SEAL]

Notary Public

My commission expires:

STATE OF \_\_\_\_\_ )  
                    ) ss.:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2000  before me personally appeared

[inventor name here]

to me known and known to me to be the individual described in and who executed the foregoing instrument,  
and he / she / they acknowledged to me that he / she/ they executed the same.

[SEAL]

Notary Public

My commission expires:

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**Assignment**

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**TO**  
**HONEYWELL INTERNATIONAL INC.**

**INVENTION:**

**Methods of Forming Titanium-Based  
and Zirconium-Based Mixed-Metal  
Materials; and Sputtering Targets**

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**HW File: H0001468**

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Honeywell International Inc.